### **PATENT COOPERATION TREATY**

From the INTERNATIONAL SEARCHING AUTHORITY CO. 174105							
To:			OCKET	الأال		PCT	
			APR 1 1 2005				
	see form	PCT/ISA/2203Y	- Oll			TEN OPINION OF THE	
			PHARMACIA	INTE		NAL SEARCHING AUTHORITY	
					(1	PCT Rule 43 <i>bis</i> .1)	
				Date of mailing			
!				(day/moi	nth/year) se	e form PCT/ISA/210 (second sheet)	
Applicant's or agent's file reference see form PCT/ISA/220					FOR FURTHER ACTION See paragraph 2 below		
	International application No. International filing date (c) PCT/IB2004/004187 15.12.2004			ay/month/year) Priority date (day/month/year) 19.12.2003			
•	International Patent Classification (IPC) or both national classification and IPC C07D401/14, A61K31/495, A61P29/00						
Appl	icant ARMACIA CORF	POPATION					
[,,							
1.	This opinion co	ontains indicatio	ons relating to the follo	wing ito	we.		
٠.	_		<del>-</del>	wing ite			
<u> </u>	Box No. I Basis of the opinion						
	☐ Box No. II Priority						
	<ul> <li>☑ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</li> <li>☐ Box No. IV Lack of unity of invention</li> </ul>						
	Box No. V  Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
□ Box No. VI Certain documents cited							
	Box No. VII	Certain defects	in the international appli	plication			
	☐ Box No. VIII	Certain observ	ations on the internations	al applica	tion		
2.	FURTHER ACTI	ION					
If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply w the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.							
	If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
	For further option	ns, see Form PC	T/ISA/220.				
3.	For further details, see notes to Form PCT/ISA/220.						

Name and mailing address of the ISA:

Authorized Officer

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Telephone No. +49 89 2399-



## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/004187

IAP20 Rec'd PCT/PTO 19 JUN 2006

		THEOTION OF THE JUNE TO				
	Box N	lo. I Basis of the opinion				
1.	With regard to the language, this opinion has been established on the basis of the international application the language in which it was filed, unless otherwise indicated under this item.					
	la	his opinion has been established on the basis of a translation from the original language into the following nguage , which is the language of a translation furnished for the purposes of international search under Rules 12.3 and 23.1(b)).				
2.		egard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:				
	a. type of material:					
		a sequence listing				
		table(s) related to the sequence listing				
	b. forn	format of material:				
		in written format				
		in computer readable form				
	c. time of filing/furnishing:					
		contained in the international application as filed.				
		filed together with the international application in computer readable form.				
		furnished subsequently to this Authority for the purposes of search.				
3.	ha Co	addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as opropriate, were furnished.				
4.	Additio	onal comments:				

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/004187

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability						
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:						
☐ the entire internationa	the entire international application,					
☑ claims Nos. 12-13	claims Nos. 12-13					
because:						
the said international a relate to the following (specify):	the said international application, or the said claims Nos. 12-13 with respect to industrial applicability relate to the following subject matter which does not require an international preliminary examination (specify):					
see separate sheet	see separate sheet					
the description, claims unclear that no meaning	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
the claims, or said clair could be formed.	the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.					
☐ no international search	no international search report has been established for the whole application or for said claims Nos.					
the nucleotide and/or a C of the Administrative	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:					
the written form		has not been furnished				
		does not comply with the standard				
the computer readable	form $\square$	has not been furnished				
		does not comply with the standard				
the tables related to the not comply with the technique.	the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.					
☐ See separate sheet for	See separate sheet for further details					

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/IB2004/004187

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

1-13

No: Claims

Inventive step (IS)

Yes: Claims

No: Claims

1-13

Industrial applicability (IA)

Yes: Claims

1-11

No: Claims

2. Citations and explanations

see separate sheet

## 10/583460 iAP20 Rec'd PCT/PTO 19 JUN 2006

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2004/004187

#### Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 12-13 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with re-spect to the industrial applicability of the subject-matter of these claims (Art. 34(4)(a)(i) PCT).

### Re Item V

Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

D1: WO A 03/104223

The present application relates to a crystalline form of 2-{4-[3-(4-chloro-2-fluorophenyl)-4-pyrimidin-4-yl-1H-pyrazol-5-yl]piperidin-1-yl}-2-oxoethanol (claims 1-5), pharmaceu-tical compositions thereof (claims 6-11) and a method of treatment by administering the above compound (claims 12-13).

For the assessment of the present claims 12-13 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentabi-lity can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

The obviously amorphous form of 2-{4-[3-(4-chloro-2-fluorophenyl)-4-pyrimidin-4-yl-1H-pyrazol-5-yl]piperidin-1-yl}-2-oxoethanol is known from ex. 27 according to D1. The crystalline form of this substance is not known.

The subject-matter of claims 1-13 according to the present case is therefore novel in the sense of Article 33(2) PCT.

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/IB2004/004187

Closest prior art is D1

To be inventive a chemical compound should

- a. possess a structure that is unexpected
- b. exhibit a use or an effect which is unexpected (Guidelines C-IV, 9.10)
- c. the compound has been prepared by an inventive process, but only in the case where a technical prejudice to its production or unsurmountable difficulties in its production were believed to exist (Guidelines C-IV, 9.8(d))

None of the above requirements are fulfilled in the present case.

An inventive step in the sense of Article 33(3) PCT cannot be acknowledged for the subject-matter of claims 1-13, unless a surprising effect is demonstrated which would serve to distinguish the crystalline form of 2-{4-[3-(4-chloro-2-fluorophenyl)-4-pyrimidin-4-yl-1H-pyrazol-5-yl]piperidin-1-yl}-2-oxoethanol further from its amorphous form dis-closed in ex. 27 of D1.

### Further objections:

The term "about" used throughout the claims is vague and unclear and leaves the rea-der in doubt as to the meaning of the technical features to which it refers, thereby rendering the definition of the subject-matter of said claims unclear (Article 6 PCT).